TYPE OR PRINT IN BLACK INK (For instructions, see booklet: "How to File an Application to Appropriate Water in California")



California Environmental Protection Agency

State Water Resources Control Board
Division of Water Rights
P.O. Box 2000, Sacramento, CA 95812-2000
Tel: (916) 341-5300 Fax: (916) 341-5400

APPLICATION NO.

(leave blank)

Tel: (916) 341-5300 Fax: (916) 341-5400 www.waterrights.ca.gov

APPLICATION TO APPROPRIATE WATER

SECTION A: NOTICE INFORMATION

	APPLICANT.	ASSIGNED AGENT (if any)
Vame	Frank & Barbara	
	Greer	
Mailing Address	P.O. Box 786	
City, State & Zip	Esparto CA 95627	
Telephone	(530) 796-6887	
Fax	(530) 752-9923	
E-mail	flareer@ucdaris.edu	
Sole Owner Limited Partne Corporation Cosporation	☐ Joint Venture	
PROJECT DES	SCRIPTION (Provide a detailed description of your activity, area to be graded or excavated, and how See Atlack ment A & B	our project, including, but not limited to, we the water will be used.)
PROJECT DES	SCRIPTION (Provide a detailed description of you activity, area to be graded or excavated, and how	our project, including, but not limited to, we the water will be used.)
PROJECT DESTRUCTION Please	SCRIPTION (Provide a detailed description of you activity, area to be graded or excavated, and how	our project, including, but not limited to, we the water will be used.)
PROJECT DES	SCRIPTION (Provide a detailed description of yon activity, area to be graded or excavated, and how See Attach ment A & B	vour project, including, but not limited to, we the water will be used.) Appendix
PROJECT DES ype of construction Please Tror continuation, s PURPOSE OF 19 a. PURPOSE	SCRIPTION (Provide a detailed description of yon activity, area to be graded or excavated, and how See Attach ment A & B	rour project, including, but not limited to, w the water will be used.) Appendix AND SEASON See Attachner
PROJECT DES Type of construction Please The continuation, so URPOSE OF 19 a. PURPOSE OF USE	SCRIPTION (Provide a detailed description of you activity, area to be graded or excavated, and how See Attachment No USE, DIVERSION/STORAGE AMOUNT A DIRECT DIVERSION AMOUNT SEASON OF DIVERSION	AND SEASON See Attachner STORAGE ON AMOUNT SEASON OF COLLECTION
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PROJECT DES	CRIPTION (Provide a detailed description of yon activity, area to be graded or excavated, and how See Attachment No. See Attachment No. USE, DIVERSION/STORAGE AMOUNT A DIRECT DIVERSION AMOUNT SEASON OF DIVERSION Rate (cfs or gpd)* Per annum (month & day) (month & day) 74 6 27.0 2/15 18.8 6 8	AND SEASON See Attachner STORAGE ON AMOUNT SEASON OF COLLECTION date Acre-feet Beginning date (month & day) Edday per annum (month & day) STORAGE ON AMOUNT SEASON OF COLLECTION Acre-feet Beginning date (month & day) STORAGE ON AMOUNT SEASON OF COLLECTION Acre-feet Beginning date (month & day) The Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection On Amount Season of Collection Acre-feet Beginning date (month & day) The Collection of Collection of Collection On Amount Season of Collection On Amount
PROJECT DES ype of construction Please I For continuation, s URPOSE OF I a. PURPOSE OF USE (irrigation, domestic, e reseation Tildlife enhancen	CRIPTION (Provide a detailed description of yon activity, area to be graded or excavated, and how See Attachment No. See Attachment No. USE, DIVERSION/STORAGE AMOUNT A DIRECT DIVERSION AMOUNT SEASON OF DIVERSION (cfs or gpd)* Rate (cfs or gpd)* Per annum (month & day) (month & day) 74	AND SEASON See Attachment STORAGE ON AMOUNT SEASON OF COLLECTION date Acre-feet Beginning date (month & day) STORAGE ACRE-feet Beginning date (month & day) ACRE-feet Beginning date (month & day)

☐ YES ☐ NO

☐ YES ☐ NO

SEE Attachments b. State Planar and Public Land Survey Coordinate Description: POD/ CALIFORNIA ZONE SECTION POINT IS WITHIN TOWN PORD COORDINATES (40-acre subdivision) -SHIP MERIDIAN # (NAD 27) 13 15G5 Quad 1/4 of SW4 10N 3 W mp /đለ mD 14 □ See Attachment No. c. Name of the post office most often used by those living near the proposed point(s) of diversion: Brooks, CA 6. WATER AVAILABILITY a. Have you attached a water availability analysis for this project? YES \(\sigma\) NO SEE Attachment If NO, provide sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation: The estimated average flow/copacity in Taylor Creek diversion in ea - BO3 ☐ See Attachment No. b. Is your project located on a stream system declared to be fully appropriated by the State Water Resources Control Board during your proposed season of diversion? XYES \(\square\) NO In an average year, does the stream dry up at any point downstream of your project? YES \(\sigma\) NO If YES, during which months?

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

Nov

Dec d. What alternate sources of water are available if a portion of your requested diversion season must be excluded because water is not available for appropriation? (e.g., percolating groundwater, purchased water, etc.) None - many test holes have been drilled on our and adjacent : D. See Attachment No. _ ranches seeking subsurface irrigation water.

No sufficient water has been found to date. 7. PLACE OF USE USE IS WITHIN SECTION* TOWNSHIP RANGE IF IRRIGATED BASE & (40-acre subdivision) MERIDIAN Presently cultivated? Acres 4 of SW4 10 N mo.B&m 25 acs 3 W **NO** Total 3 W ☐ YES ☐ NO 10 N 10 be ☐ YES ☐ NQ 1/4 of ☐ YES ☐ NO 1/4 of 1/4 ☐ YES ☐ NO 1/4 of 1/4 ☐ YES ☐ NO 4 of 1/4

Total: 25 Acres: all on Please indicate if section is projected with a "(P)" following the section number. Class I So I See Attachment No.

noal

1/4 of

1/4 of

Dlagga provide d

1/4

1/4

SECTION B: MISCELLANEOUS DIVERSION INFORMATION

CROP	ACRES	METHOD OF I		WATER USE	SEASON OF	
		(sprinklers, flo		(Acre-feet/Yr.)	Beginning date (month & day)	Ending date (month & day)
Almonds	25	Drip-e	mitter	33.5	4/15	10/15
			· · · · · · · · · · · · · · · · · · ·			
See Attachment No.						
See Attachment No						
DOMESTIC: Number	per of resider	nces to be served:	Sep	arately owned?	☐ YES ☐ NO	
Number of people to Area of domestic law	ns and gard	lenc'	sauare fea	a †		Ions per day
Incidental domestic u	ses:		square rec			
\		(dust control are	a, number and kind	of domestic animals,	etc.)	
STOCKWATERN Describe type of oper	VG: Kind (of stock: Kang	e Catale	Maximum i	number: _2	5
bescribe type of oper	ation	12ange 10	ieediot, d)	lairy, range, etc.)		
I. □ RECREATIONAI						
. 🗆 MUNICIPAL:						
POPULATION		MAXIMUM	MONTH		ANNUAL USE	
List for 5-year periods until use Period Popi		Average daily use	Rate of diversion	Average daily use	Acre-foot	Total
		(gallons per capita)	(cfs)	(gallons per capita)	(per capita)	(acre-l'eet)
Present						
						Ĭ
See Attachment No						
Month of maximum u	se during y	ear:	Month of	minimum use du	ring year:	
☐ HEAT CONTROL	: Area to b	e heat controlled:		net acres		
Type of arone	ed:					<u>,, </u>
Type of crops protecte	applied to	use:	gum per acre	.		
Type of crops protecte Rate at which water is Heat protection season	will begin		_ and and			
Rate at which water is Heat protection seasor	n will begin	(month & day)	and end	(month & day)		
☐ FROST PROTECT	ION: Area	(month & day) a to be frost protec	_ and end ted:	(month & day) net acres		
☐ FROST PROTECT	I will begin ION: Area	(month & day) a to be frost protec	ted:	(month & day) net acres		· · · · · · · · · · · · · · · · · · ·
☐ FROST PROTECT Type of crops protecte Rate at which water is	ION: Area	(month & day) a to be frost protec	ted:	(month & day) net acres		
☐ FROST PROTECT Type of crops protecte Rate at which water is The frost protection se	TON: Aread: d:applied to ason will b	(month & day) a to be frost protec use: egin (month & day)	gpm per ac	(month & day) net acres		
☐ FROST PROTECT Type of crops protecte Rate at which water is The frost protection se	TON: Aread: d:applied to ason will b	(month & day) a to be frost protec use: egin (month & day)	gpm per ac	(month & day) net acres		
☐ FROST PROTECT Type of crops protecte Rate at which water is The frost protection se ☐ INDUSTRIAL: Ty Basis for determination	TON: Area applied to ason will be applied industriant of amoun	(month & day) a to be frost protec use: egin (month & day) stry: t of water needed;	gpm per ac and end	(month & day) net acres re (month & day)		
. ☐ FROST PROTECT Type of crops protecte Rate at which water is	TION: Area ed:applied to ason will be to a moun fithe claim:	(month & day) a to be frost protec use: egin (month & day) stry: t of water needed:	gpm per ac and end	(month & day) net acres re (month & day)	Patented □	Unpatented

, R

B. & M.

			SEE Attac	chmen	its G	; t+ +	$-\mathcal{I}$	
Diversion will be a cornelisted use of a								
			small lift	Dump	inano	(tset	sumpor	
2. DIVER81	ON AND D	ISTRIRII	box or channe	1 - wa	ter will	be pu	ionged up	١
a. Diyersi	on will be by	gravity by:	Small lift box or channe TION METHOD app means of: into G (dam, pipe in u	gravi	ty feed	Pipe.	and empti	૯ વો
B Diversi	on will be by	pumping fr	om: Lift and	nobstructed chan	nel, pipe through da	m, siphon, weir	gate, etc.)	
B Diversion will be by pumping from: Lift gump - grant Ceed pige - grassed (sump, offset well, channel, reservoir, etc.) Pump discharge rate: 300 98 20 cfs or gpd Horsepower: 3-5 Pump Efficiency								
r unip u	ischarge rate:	- J 00 7/	CLUCIS OF LIPPORT HORS	enower 🤏•	5 Pum	p Efficiency	-> Po	NO
c. Conduit	from diversion	on point to I	first lateral or to offstream			•		-
(pipe or	(type of pipe	or channel lin	ling; (pipe diameter, or ditch	CROSS-SECTION LEN (pipe diameter, or ditch depth (fe		OTAL OF FALL	CAPACITY (cfs, gpd or	
channel)	indicate if pip	pe is buried or P_{IR} e	not) and top and bottom w (inches or feet)	ridth)	feet	+ or -	gpm)	
		Jule 1		tec a	2000 /0		G 020) Y	
	,		O Plank				300 gpm	
				/3	77.00		200 975	
See Attachi	nent No	SEE	Attachment	m;	h Acc			
d Storaga					vv			
RESERVOIR	I	or undergro	ound storage, complete an	d attach forn	1			
NAME	Vertical h	aight Co	DAM			RESERVOIR		
OR NUMBER	from downs	itream i		Freeboard: height above	Surface area when full	Capacity (acre-feet)	Maximum water depth	
	toe of slop spillway lev		sp	illway crest (feet)	(acres)	,	(feet)	
GREEK	706		xisting approx.	3 ft.	3.0	48 90	14 17 ft	
Pond	deter	Munes 5	Soil 900 ft.	·	Acres	not inc	<u> </u>	>
☐ See Attachn	l ient No.					treebo	rd	
		for storage	racarvoira havina a acces	·	C .			
RESERVOIR	Compicie	TOT STOTAGE	reservoirs having a capac		e-feet or more			
NAME	Diameter			ET PIPE				
OR NUMBER	(inches)	Length (feet)	Fall: vertical distance between	vertical di	Head: stance from spill-		Storage: elow entrance	
			entrance and exit of outlet pipe (feet)		ance of outlet pip	e of a	itlet pipe	
GREER	24"	401	3	-	(feet)	0.00	re-feet)	
POND								
☐ See Attachm	ant No							
		•	,		¥.			
f. If water v	vill be stored	and the rese	ervoir is not at the point of	diversion, th	he maximum r	ate of diver	sion to off-	
30	sage will be	$\frac{2}{\sqrt{x}}$ 60	ifs. Diversion to offstream $\times 24 \text{ Ars} = 43$	i storage wil	I be made by:	□ Pumping		
3. CONSERV.	A HUN AN	D MONIT	CORING	•		. 668		
a. What meth	ods will you	use to conse	erve water? Explain. All	irriga	Tran -			
Lost stock	-Cuil		ers. Irrigat brid which b			one or		
ess sur Rac	e Deois	ture. 1	Will latilize =	1 a d -	1 a a - 4	- 5/20 m	- 1 + Uposist	ant
5 hours to	ou monitor v	Pario.	on to be sure you are with	n the limite	of your water	Int and vo	CS n are not	-
wasting wa	iter? 🗆 Weii	☐ Meter	Periodic sampling	Other (desci	ribe)	igin and yo	a are not	
will	use co		tions of +	S 1	´,	Stor	o-ce	,
Capa	144							
FW1 1-	<u>city</u> b	ytic	retononito.		15ion.	∕^\ 		4
$\frac{m}{n}$	With T	tite c	retononitor		nsion.	∕^\ 	Attachne	4
4. RIGHT OF	Will of ACCESS	tion chair	retononito.	1/2 0	oys o-	f div	ression	4

	The confermal (us) is
	water diversion and use, if applicable. The Green Ranch (us) is bordered on the West, north-west boundary by
	Tay lor Creek for approx. 2800 feet. The Ranch
	hair waller leave trong trains
(we currently have agreed 40 noises of dry land formed orchard (almonds). Riparian Rights since early
-1	c. List any related applications, registrations, permits, or licenses located in the proposed place of use or that 1900 5
	utilize the same point(s) of diversion.
	See Attachment No
_	
0.	OTHER SOURCES OF WATER Are you presently using, or do you intend to use, purchased water or water supplied by contract in connection
	with this project? Yes No If yes, please explain:
7.	MAP REQUIREMENTS
	The Division cannot process your application without accurate information showing the source of water and
	location of water use. You must include a map with this application form that clearly indicates the township, range, section and quarter/quarter section of (1) the proposed points of diversion and (2) the place of use. A copy
	of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from sporting
	goods stores or through the Internet at http://topomaps.usgs.gov. A certified engineering map is required when
	(1) appropriating more than three cfs by direct diversion, (2) constructing a dam which will be under the jurisdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of ten acres or
	(4) appropriating more than 1000 acre-feet per annum by underground storage. See the instruction booklet for
	more information. □ See Attachment No
	SECTION C: ENVIRONMENTAL INFORMATION
En prodei	bete: Before a water right permit may be issued for your project, the State Water Resources Control Board (SWRCB) ast consider the information contained in an environmental document prepared in compliance with the California divironmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet been epared for your project, a determination must be made of who is responsible for its preparation. If the SWRCB is termined to be responsible for preparing the CEQA document, the applicant will be required to pay all costs sociated with the environmental evaluation and preparation of the required documents. Please answer the following estions to the best of your ability and submit with this application any studies that have been conducted regarding the environmental evaluation of your project.
1.	COUNTY PERMITS
	a. Contact your county planning or public works department and provide the following information:
	Person contacted: Bret Hale Head ParDate of contact: Sept. 2, 2004 Department: Yalo Co. Dept. Planning & Public Telephone: (530) 666-8775 County Zoning Designation: A Public Telephone: (530) 666-8775 Are any county permits required for your project? EYES NO If YES, check appropriate box below:
	County Zoning Designation: A S Works Telephone: (330) 666-8//
	Are any county permits required for your project? YES \(\sigma\) NO If YES, check appropriate box below:
	Grading permit in Ose permit in watercoarse in Costruction permit in Change of zoning
	☐ General plan change ☐ Other (explain):
	b. Have you obtained any of the required permits described above? If YES, provide a complete copy of each permit obtained. See Attachment No STATE/FEDERAL PERMITS AND REQUIREMENTS
	See Attachment No
2.	STATE/FEDERAL PERMITS AND REQUIREMENTS
•	a. Check any additional state or federal permits required for your project:
	☐ Federal Energy Regulatory Commission ☐ U.S. Forest Service ☐ U.S. Bureau of Land Management ☐ U.S. Corps of Engineers ☐ U.S. Natural Res. Conservation Service ★ Calif. Dept. of Fish and Game.

	c. Does your proposed project involve any construction or grading-related activity that has significantly alter or would significantly alter the bed, bank, or riparian habitat of any stream or lake? YES NO	eđ
	If YES, explain:	
	☐ See Attachment No.	
	d. Have you contacted the California Department of Fish and Game concerning your project? YES N If YES, name and telephone number of contact:	o Je
3.	ENVIRONMENTAL DOCUMENTS R2-(916) 983-6920	
	a. Has any California public agency prepared an environmental document for your project? YES NO c. If YES, submit a copy of the latest environmental document(s) prepared, including a copy of the notice of determination adopted by the California public agency. Public agency:	
	d. If NO, check the appropriate box and explain below, if necessary:	
	The applicant is a California public agency and will be preparing the environmental document.* I expect that the SWRCB will be preparing the environmental document.**	
	☐ I expect that a California public agency other than the State Water Resources Control Board will be preparing the environmental document.* Public agency: ☐ See Attachment No.	_
	* Note: When completed, submit a copy of the <u>final</u> environmental document (including notice of determination) or notice of exemption to the SWRCB, Division of Water Rights. Processing of your application cannot proceed unthese documents are submitted.	il
	** Note: CEQA requires that the SWRCB, as Lead Agency, prepare the environmental document. The information contained in the environmental document must be developed by the applicant and at the applicant's expense under the direction of the SWRCB, Division of Water Rights.	
4.	VASTE/WASTEWATER	
	. Will your project, during construction or operation, (1) generate waste or wastewater containing such things sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidity or sedimentat YES NO	as on?
	If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Con Board for the following information (See instruction booklet for address and telephone no.):	itrol
		-
	3.	
	□ See Attachment No	-
	. Will a waste discharge permit be required for your project? YES NO	
	Person contacted: Date of contact:	
	□ See Attachment No.	÷
5.	permer early con mil 1 1 1	
	Have any archeological reports been prepared on this project? YES \(\subseteq \text{NO} \)	
	will you be preparing an archeological report to satisfy another public agency? \(\Boxed{\text{TYES}}\) \(\mathbb{NO}\)	
	Do you know of any archeological or historic sites located within the general project area? \(\text{YES} \text{ XNO} \\ \text{If YES, explain:} \(\text{YES, explain:} \) \(\text{YES, explain:} \(\text{YES, explain:} \)	<u>س</u>
	Service (Woodland office) submitted a Request for	- a
	Cultural Resources Review re: this project si	te

SECTION D: SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the Streamflow Protection Standards review fee [Pub. Resources Code § 10005(a)], payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. Your application will be returned to you if it is not accompanied by all required fees.

SECTION E: DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application.

Frank L Sheen	Landowner	9-24-04
Signature of Applicant	Title or Relationship	Date
Barbara B. Greer Signature of Co-Applicant (if any)	Spouse Titly or Relationship	9-24-04 Date



"APPLICATION TO APPROPRIATE WATER" CHECKLIST

Before you submit your application, be sure to:

- Answer each question completely in Sections A, B, and C.
- Number and include all necessary attachments.
- Include a legible map that meets the requirements discussed in the instruction booklet (Item B6).
- □ Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation (Item A6).
- Include three complete sets of color photographs of the project site (Item C6).
- Enclose a check for the required fee, payable to the Division of Water Rights, as specified in Section D.
- Enclose a \$850 check for the Streamflow Protection Standards review fee, payable to the Department of Fish and Game, as specified in Section D.

(COPY)

State of California State Water Resources Control Board

DIVISION OF WATER RIGHTS

P.O. Box 2000, Sacramento, CA 95812-2000 Info: (916) 341-5300, FAX: (916) 341-5400, Web: http://www.waterrights.ca.gov

APPLICATION TO APPROPRIATE WATER BY PERMIT ENVIRONMENTAL-INFORMATION

(THIS IS NOT A CEQA DOCUMENT)

1915/6

APPLICATION NO.	0.01040		G	REER	2
The following informate California Environment ACCEPTED AS COM COMPLETED TO THE your application being additional sheets. Additionation requested in the control of the con	tal Quality Act (CE PLETED, ANSWE) E BEST OF YOUR returned to you, cau itional information in this form.	QA). <u>IN ORDER</u> RS TO THE QUE: ABILITY. Failur Using delays in pro-	FOR YOUR AF STIONS LISTED Te to answer all que cessing. If your	PLICATION BELOW PLESTIONS IN THE PLESTION IN T	ON TO BE V MUST BE hay result in space, attach
structures existing how the water will	on of your project, i or to be built, area t	o be graded or exc	avated and proje	ect operation	ion activity, on, including

GOVERNMENTAL REQUIREMENTS

Before a final decision can be made on your water right application, we must consider the information contained in an environmental document prepared in compliance with the requirements of CEQA. If an environmental document has been prepared, a determination must be made as to who is responsible for the preparation of the environmental document for your project. The following questions are designed to aid us in that determination.

2.	Cor	ntact your county planning or public works department for the following information:
	a.	Person contacted Bret Hale Date of contact Sept. 3, 2004
		Department Tolo County Planning Telephone (53)0) 666-8775
	ъ.	Abscosor 5 Talcol 140.
	c.	County Zoning Designation Agricultural Preserve (Williamson
	d.	Are any county permits required for your project? Yes If yes, check appropriate space below:
		Grading Permit, Use Permit, Watercourse Obstruction Permit, Change of Zoning, General Plan
		Change, Other (explain):
		The County requires a Pand Plan prepared
		by an engineer. Once pond design and site
		plan is reviewed and approved a grading permits is issued. County inspects project once construction. Have you obtained any of the required permits described above?
	e.	Have you obtained any of the required permits described above? If yes, provide a complete copy of each permit obtained. Will out on a rece NRCS
7	À	engineer has completed
3.	Fed	any additional state or federal permits required for your project?
		servation Service, Department of Water Resources (Division of Safety of Dams), lamation Board, Coastal Commission, State Lands Commission, etc.) For each agency from
	whi	ch a permit is required provide the following information: Possiby Dept. of Fish & Corne
	Pen	Not sure until DFG Streamflow Protection mit type Standards Review is done
		son (s) contacted Gary Hab good Agency CA. Dept of Fish&
	Date	e of contact Sept. 1 2004 Telephone () (916) 483 - (a)
4.		any public agency prepared an environmental document for any aspect of your project?
т.		Na ————————————————————————————————————
		o, please submit a copy of the latest environmental document (s) prepared, including a copy of
	(11¢)	notice of determination adopted by the public agency. If not, explain below whether you

expect that a public agency other than the State Water Resources Control Board will be preparing

	public agency, will be preparing the environmental document for your project:
	
	N/A - I expect that SWRCB will Preparing the environmental document if required. Yolo County will not provide the Note: When completed, please submit a copy of the final environmental document (including document) notice of determination) or notice of exemption to the State With British County.
	if required. Yolo County will not arrive to
	Note: When completed, please submit a copy of the final environmental document (including document
-	marga of gardinumgroup, of horizon of evertibility for the Prints Assist Kespilluse (Outto Board
	Processing of your application cannot proceed until such documents are submitted.
5.	Will your project, during construction or operation, generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or
	cause erosion, turbidity or sedimentation? No If so, explain:
	This is an off stream pond. Also, construction at the point of diversion (Taylor Creek)
	at the point of diversion (Taylor Creek)
	will be undertaken after the crest has
	will be undertaken after the creek has dried up. Taylor Creek is a seasonal stream.
	If yes or you are unsure of your answer, contact your local Regional Water Quality Control Board for the following information (See attachment for address and telephone number):
	Will a waste discharge permit be required for your project?
	Person contacted by a contracted
	Person contacted Date of contact
	Person contacted Date of contact What method of treatment and disposal will be used?
6.	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be
6.	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be
	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No - See below*
	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? Do you know of any archeological or historic sites located within the general project area?
	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No - See below*
	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No - See below* Do you know of any archeological or historic sites located within the general project area? If so, explain:
*	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No - See below* Do you know of any archeological or historic sites located within the general project area? No If so, explain:
*	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No - See below* Do you know of any archeological or historic sites located within the general project area? No If so, explain:
*	What method of treatment and disposal will be used? Have any archeological reports been prepared on this project, or will you be preparing an archeological report to satisfy another public agency? No - See below* Do you know of any archeological or historic sites located within the general project area? If so, explain:

ENVIRONMENTAL SETTING

These are attached in Appendix

7. Attach <u>THREE COMPLETE SETS</u> of color photographs, clearly dated and labeled, showing the vegetation currently existing at the following locations:

a. Along the stream channel immediately downstream from the proposed point(s) of diversion

Along the stream channel immediately upstream from the proposed point(s) of diversion

At the place(s) where the water is to be used

Note: It is very important that you submit no less than three complete sets of photographs as required above. If less than three sets are submitted, processing of your application will be delayed until you furnish the remaining sets.

8. From the list given below, mark or circle the general plant community types which best describe those which occur within you project area (Note: See footnote denoted by * under Question 11 below):

Tree Dominated Communities

Subalpine Conifer

Red Fir

Lodgepole Pine

Mixed Conifer

Sierran Mixed Conifer

White Fir

Klamath Mixed Conifer

Douglas-Fir

Jeffrey Pine

Ponderosa Pine

Eastside Pine

Redwood

Pinyon-Juniper

Juniper

Aspen

Closed-Cone Pine-Cypress

Montane Hardwood-Conifer

Montane Hardwood

Valley Foothill Hardwood

(Blue Oak Woodland)

(Valley Oak Woodland)

Coastal Oak Woodland

Valley Foothill Hardwood-Conifer

Blue Oak Digger Pine

Eucalyptus

Montane Riparian

Valley Foothill Riparian

Desert Riparian

Palm Oasis

Joshua Tree

Shrub Dominated Communities

Alpine Dwarf-Shrub

Low Sage

Bitterbrush

Sagebrush

Montane Chaparral

(Mixed Chaparral)

Chamise-Redshank Chaparral

Coastal Scrub

Desert Succulent Shrub

Desert Wash

Desert Scrub

Alkali Desert Scrub

Herbaceous Dominated Communities

(Annual Grassland)

Perennial Grassland

Wet Meadow

Fresh Emergent Wetland

Saline Emergent Wetland

Pasture

Aguatic Communities

Riverine

Lacustrine

Estuarine

Marine

Developed Communities

Cropland

Orchard Vineyard

Almond

Urban

Literature source: Mayer, K.E., and W.F. Laudenslayer, Jr., (eds). 1988. A Guide to Wildlife Habitats of California. California Department of Forestry and Fire Protection, Sacramento. 166 pp. (Note: You may view a copy of this document at our public counter at the address given at the top of this form or you may purchase a copy by calling the California Department of Fish and Game, Wildlife Habitat Relationships (WHR) Program at (916) 324-3812).

9. Provide below an estimate of the type, number, and size (trunk/stem diameter at chest height) of trees and large shrubs that are planned to be removed or destroyed due to implementation of the proposed changes. Consider all aspects of your application, including changes in diversion structures, water distribution and use facilities, and changes in the place of use due to additional water development.

Closses orchard an FISH AND WILDLIFE CONCERNS

10.	Identify the typical species of fish which occur in the source(s) from which you propose to divert
	water and discuss whether of hot any of these fish cherics or their helical has
	affected by your proposed changes. (Note: See footnote denoted by * under Question 11 below):
	The proposed changes. (Note: See toothole denoted by * under Question 11 below):
	Toy for vert of a seasonal creik.
	There are no fish species to
	Steam Stream is essentially dry from August to November or early
	from Angust to Ares de
	To November or early
	Decomber, There are frogs when
	moisture is Durent
	- MOISTAR B. Dresont
-	
-	
_	

11	. Identify the typical species of riparian and terrestrial wildlife in the project area and discuss
	whether or not any of these species and/or their habitat has been or would be affected by your
	project through construction of water diversion and distribution works and/or changes in the place
	of water use. (Note: See footnote denoted by * below): One main purpose of the proposed pand is to enhance the habitat
	for area's abundant wild life. This is the reason
	an NRCS EOIP (Environ mental Quality Incentives
	Program) contract was awarded to us. The diversity
	of wild life include black tail deer, turky, bobcat, fox,
	racoon, brown bear skunk, possum, gray squirrel. Bird
likind	ude jays, Lanko, owls, finches, robbins, wood peckers, etc.
* <u>N</u> c	of typical plant and animal species in the area and whether these species might be affected by your project. Detailed site surveys to quantify populations of specific species or determine the presence of rare or endangered species may be required at a later date. It is very important that you answer these questions accurately. If you are unable to obtain appropriate answers from your local California Department of Fish and Game biologists (See attachment for address and telephone number) or you do not have adequate information or expertise to complete your answers, you should hire a fishery consultant and/or a wildlife consultant to review your project and prepare suitable answers for you. For information on available qualified fishery or wildlife consultants near you, consult your local telephone directory yellow pages under Environmental and Ecological Services, or call the California Environmental Protection Agency, Registered Environmental Assessor (REA) Program, at (916) 324-6881 or the University of California, Cooperative Extension Service (See your local telephone directory white pages).
	Does your proposed project involve any construction or grading-related activity which has significantly alter the bed or bank of any stream or lake? If so, explain:
•	
CER'	TIFICATION
the pe	by certify that the statements I have furnished above and in the attached exhibits are complete to est of my ability, and that the facts, statements, and information presented are true and correct to
the be	est of my knowledge.
Date	Trank Theen Signature Barbara B. Green 9-25-04
	9/25/04 9-25-04

APPENDIX

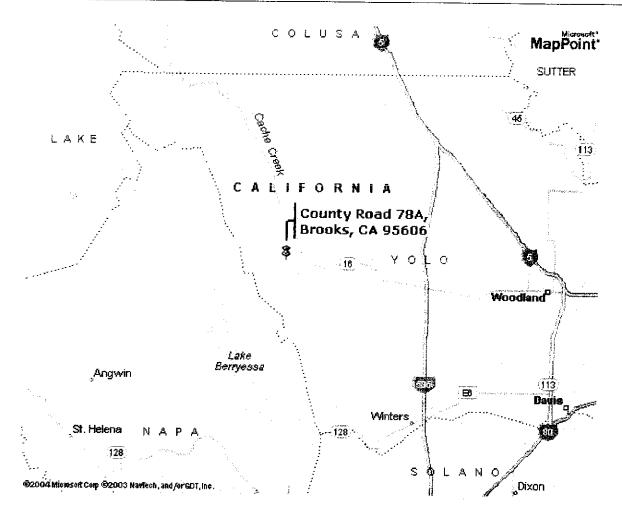
ATTACHMENT A: Project Description
ATTACHMENT B: Greer Ranch Location
ATTACHMENT C: Greer Ranch Plat Map
ATTACHMENT D: Baseline Map
ATTACHMENT E: Topographic Map
ATTACHMENT F: Pond Location- Quadrangle
ATTACHMENT G: Pond & Diversion View-Topo.
ATTACHMENT H: Pond & Diversion-Arial
ATTACHMENT I: Capay Valley Sub-Watershed
ATTACHMENT J: Taylor Creek cfs/capacity Calculation
ATTACHMENT K: Calculation Of Water Use
ATTACHMENT L: Est. Hill-Range Runoff Calculation
ATTACHMENT M: Pipeline Sizing Calculation
ATTACHMENT M: Pipeline Sizing Calculation

PROJECT DESCRIPTION

The proposed project is a 48 acre-feet capacity pond on the landowners' (Frank & Barbara Greer) ranch. This will be an off-stream, private, multi-use pond which would provide much needed water to our dryland-farmed ranch. The pond water will be used for a combination of orchard irrigation (approx. 25 acres of new almonds), wildlife enhancement for the abundant wildlife in Taylor Canyon, stock water (approx. 25 cows), and fire protection for the ranch. (See Attachments B&F for ranch location and proposed pond site).

The pond will be approx. 3.0 acres in area. It will be constructed by a combination of excavation and embankment of the on-site soil. The 160 acre hill range adjacent to the proposed pond is owned by the Greers. Approximately 100 acres of this range will provide watershed of about 11.50 ac-ft. of water to the pond in average rain years (See Attachment L for this calculation). The remaining portion (36.5 ac-ft.) of the pond's water will be provided from diversion of water from Taylor Canyon Creek which is riparian to the landowners. Taylor Canyon Creek (aka Taylor Creek) forms the western and north-western boundary of the Greer Ranch and provides about 2800 feet of creek frontage (See Attachment D) . Diversion would be by means of a gravity feed , underground , 6" pipline from a point at Taylor Creek to the proposed pond (See Attachment G&H for view of diversion plan). The diversion pipe and lift pump would be installed in a manner which does not obstruct the natural stream flow. Taylor Creek is a seasonal tributary in the Capay Valley sub-watershed of Cache Creek (See Attachment I for map of this watershed area).

We have been awarded an EQIP (Environmental Quality Incentives Program) contract from The USDA Natural Resources Conservation Service-to construct the proposed pond and implement several other conservation projects/practices on our property. The NRCS, Woodland Office, has assisted us in the development of a Whole-Farm Conservation Plan for the Greer Ranch which includes the propsed pond. The pond, diversion system, watershed drainage channels, dam, spillway, etc. will be designed by an NRCS engineer. The maps and calculation sheets contained in this application have been provided by NRCS—Woodland Office. The senior advisor is Phil Hogan (530) 662-2037 x 111. The ag engineer is Ha Truong x122.



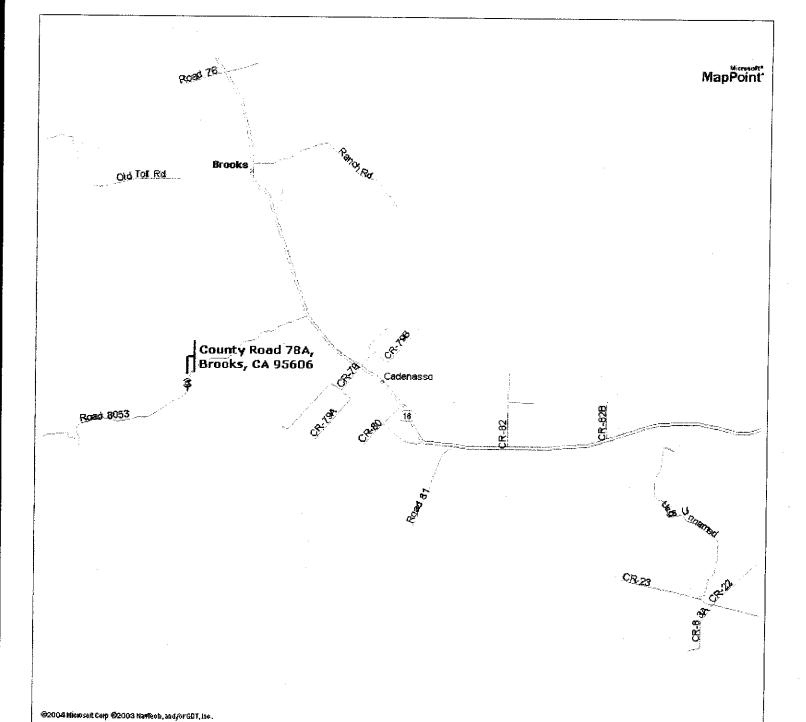
ADDRESS: END OF COUNTY ROAD 78A, CAPAY VALLEY (WEST SIDE OF HIGHWAY 16) From the field office, west on Main Street, Highway 16

through Esparto, Capay, through Capay Valley to Road 78A, turn left on Road 78A

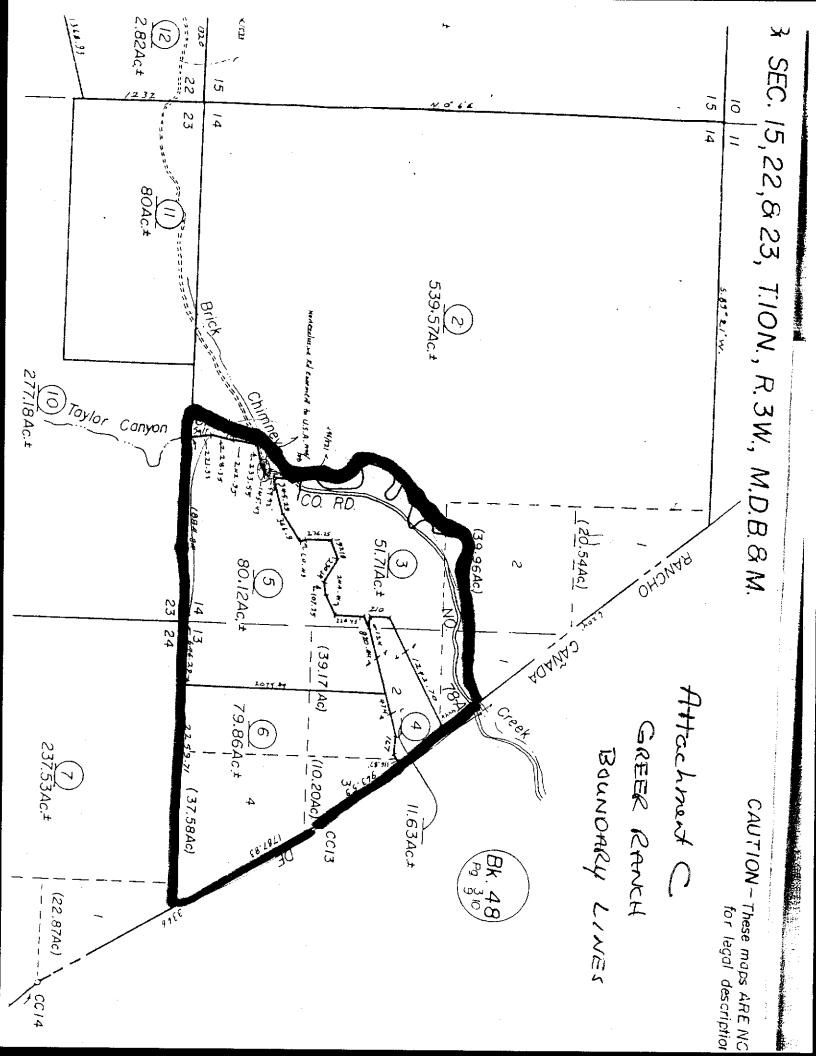
LOCATION MAP

U.S.G.S. Quad NameBrooks	Practice:Ponds
Drawn by:Phil Hogan	Producer: Frank Greer
Date Drawn:4/5/04	Tract #:86





ADDRESS: END OF COUNTY ROAD 78A, CAPAY VALLEY (WEST SIDE OF HIGHWAY 16)
From the field office, west on Main Street, Highway 16
through Esparto, Capay, through Capay Valley to Road 78A, turn left on Road 78A



BASELINE MAP

Frank Greer

Yolo County RCD 223 Date: 02/11/2004

USDA

Woodland
USDA Natural Resources Conservation Serv
JOHN TRAN, UC DAVIS
(530) 662-2037 X 111



Legend

1000

0

1000

2000 Feet

County Road 78/Roads_county_cat13_nad83.shp

Intermittent Steams Draining Berryessa Peak Sub-Watershe@ivers_countydata_ca113_nad83.shp Clu_06113_1.shp

Orchard

TOPOGRAPHIC MAP

Attachment USDA E

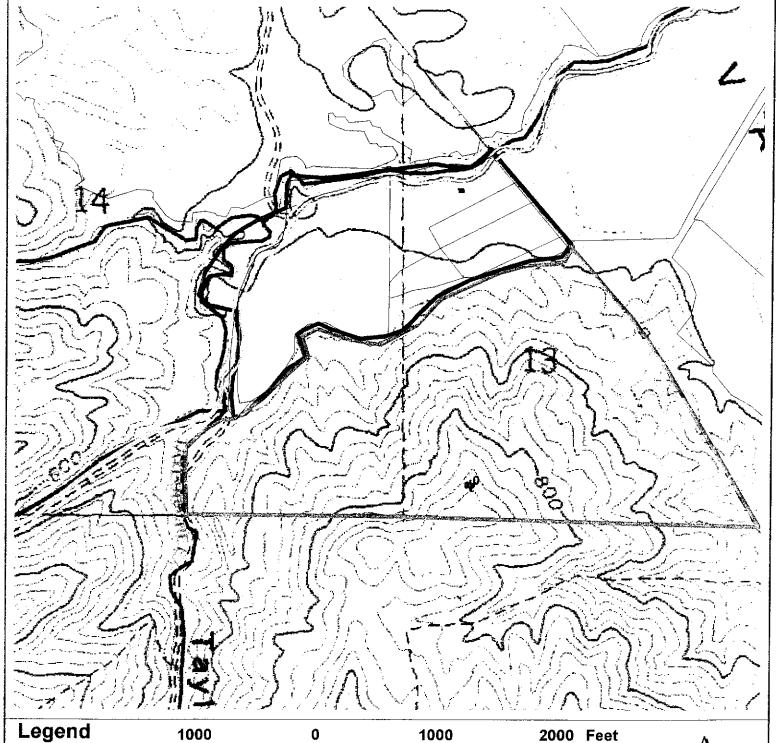
Frank Greer

Yolo County RCD

'e: 02/11/2004

Woodland
USDA Natural Resources Conservation Serv
JOHN TRAN, UC DAVIS
(530) 662-2037 X 111





County Road 78ARoads_county_ca113_nad83.shp

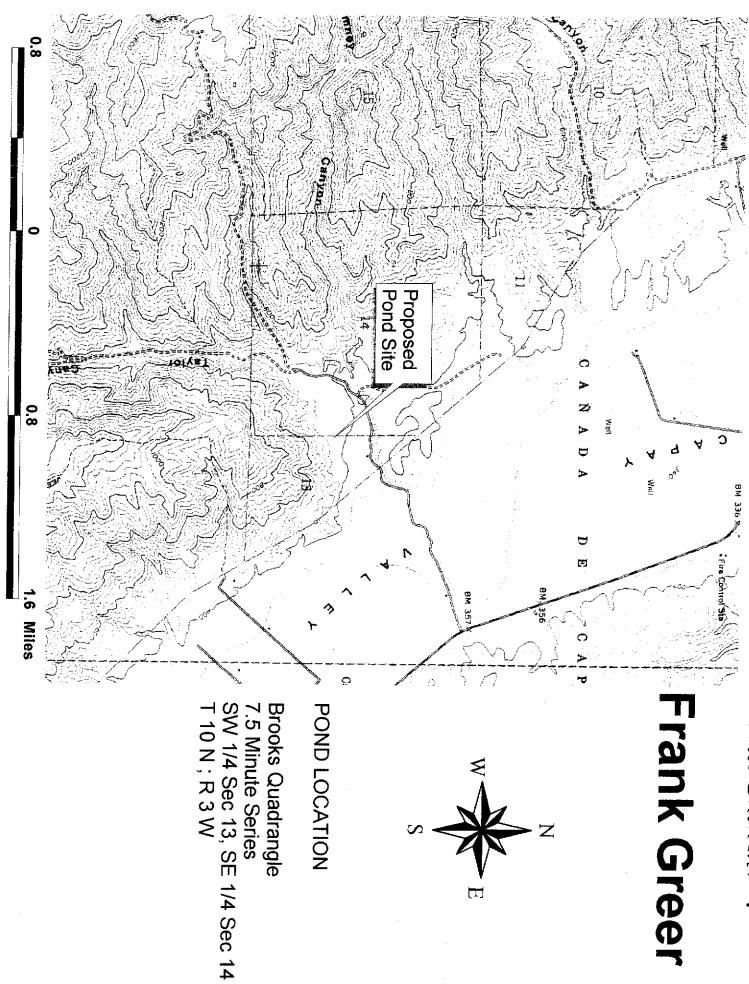
Rangeland

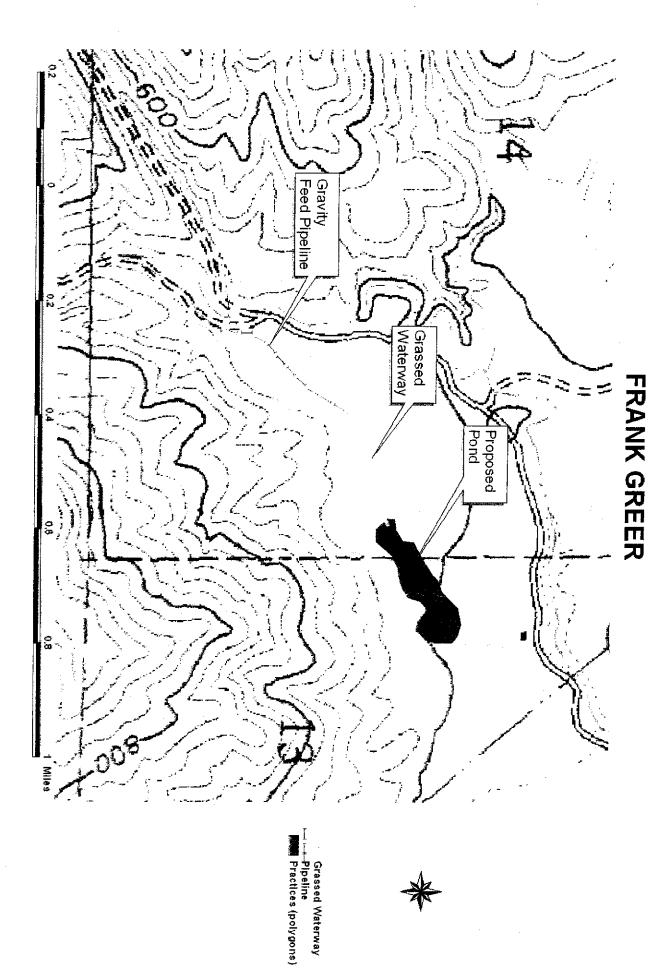
Intermittent Steams Draining Berryessa Peak Sub-Watershed Rivers_countydata_ca113_nad83.shp Clu_06113_1.shp

CIG_00 1 10_1.311

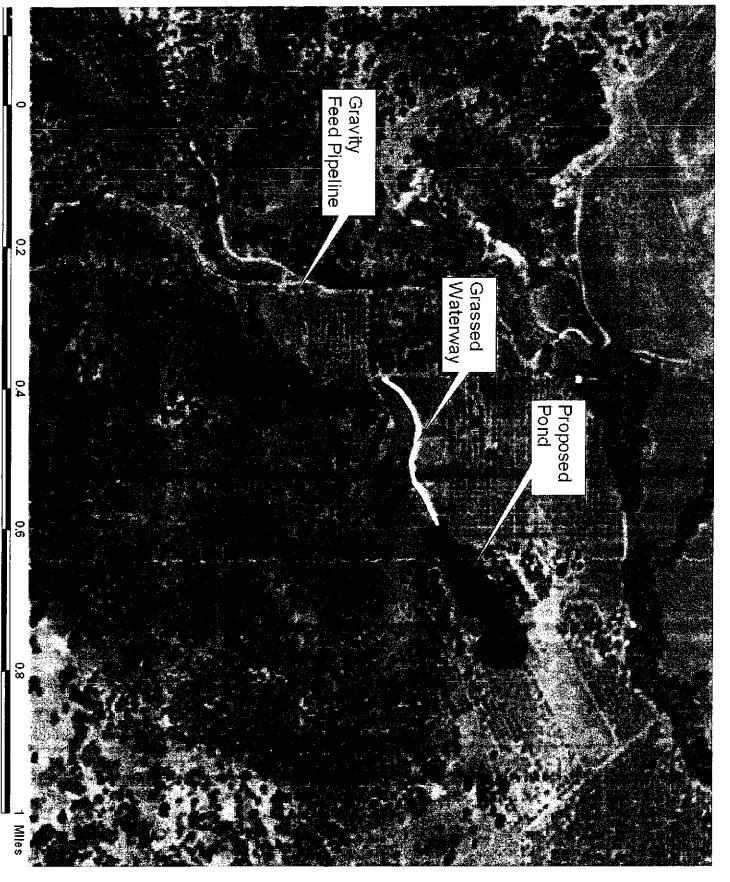
Orchard







Attach ment H FRANK GREER



Capay Valley

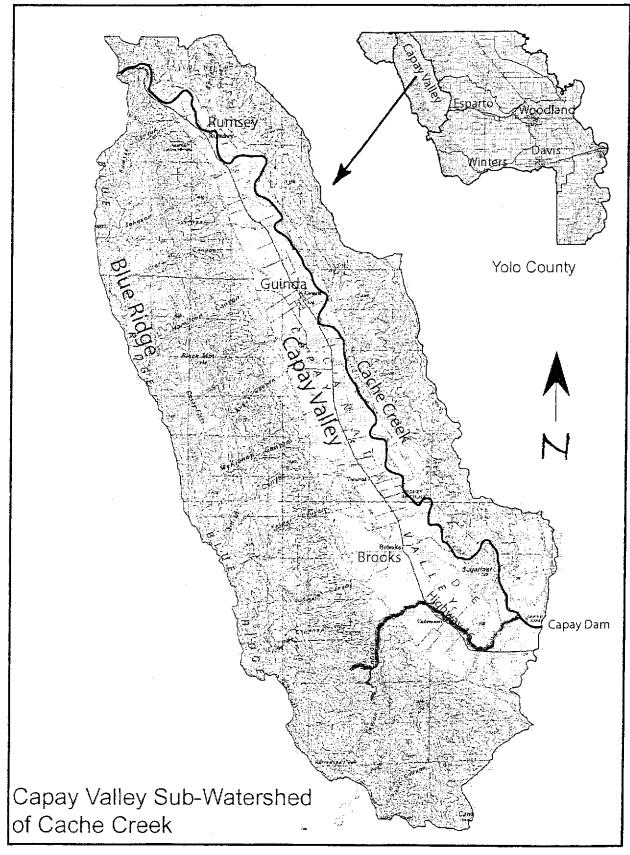


Figure 2: Capay Valley Map

Attachment J

Natural Resources Conservation Service United States Department of Agriculture

Trapezoidal Channel Section

prepared for

Frank Greer

in

County, Yolo County, CA						
Designer: Date: 09/17/2004		Checker: Date:				
	Taylor Creek					
Slope: .003 ft/ft 'n' value: .03			Hydraulic Radius: 3.41 Area: 112.50 sq ft Velocity: 6.14 ft/sec Capacity: 690.92 cfs			
	Sideslope: 1.5:1 Bottom Width: 15 ft Depth of Flow: 5 ft. Width @ surface 30 ft					

(cont.)

Natural Resources Conservation Service United States Department of Agriculture

Trapezoidal Channel Section

prepared for

Frank Greer

in

County, Yolo County, CA						
Designer: Date: 09/17/2004		Checker: Date:				
	Taylor Creek					
Slope: .003 ft/ft 'n' value: .03		Hydraulic Radius: 3.54 Area: 127.50 sq ft Velocity: 6.30 ft/sec Capacity: 803.26 cfs				
	Sideslope: 1.5:1 Bottom Width: 18 ft					

Depth of Flow: 5 ft. Width @ surface 33 ft

Attachment K CALCULATION OF WATER USE

- 1) Irrigation (Almond trees)
 - 28 gallons/day X 110 trees/acre per tree (min.) X 110 trees/acre
 - X 25 total acres = 77,000 gals/day
 - X 150 days (irrigation season)
 - = 11,550,000 Total gallons : 325,850 gallons per acre/ft.
 - = 35.45 Acre feet
- 2) Stock Water (approx. 25 head)

 15 gallons/day x 25 cows = 375 gals/day

 x 365 days = 136,875 Total gallons
- 3) Hedge row of Native Treeol S. Shrubs

 1100 feet (row) x 12 feet (width) 100 sq.ft

 = 132.00 sq. ft x 18.5 gallons) day

 x 150 days = 366,300 Total gals
- Fragoration Loss (estimate)

 approx. 1.6 acrefeet X 3.0 Acre Area of Pono

 4.8 Total Loss (Minimum)



ESTIMATING RUNOFF AND PEAK DISCHARGE

Version 1.1.0

Client: Frank Green

County: YOLO Practice: 378 Pond

Calculated By: HT

Checked By: ____

State: CA

Date: 8/11/2004

Date:

Drainage Area:

92

Acres (provided from RCN Calculator)

78

(provided from RCN Calculator)

Curve Number: Watershed Length:

3000

Feet

Watershed Slope:

16

Time of Concentration:

Percent

Rainfall Type:

.339 IA Hours (calculated value)

Storm Number	1	2	3	4	5	6	7.
Frequency (yrs)	2	5	10	25	50	100	
24-Hr rainfall (in)	3.5	4.1	5.1	6.1	6.6	7.0	
Ia/P Ratio	0.16	0.14	0.11	0.09	0.09	0.08	0.00
Used	0.16	0.14	0.11	0.10	0.10	0.10	0.00
Runoff (in)	1.50	1.97	2.80	3.67	4.11	4.47	0.00
(ac-ft)	11.50	15.10	21.47	28.14	31.51	34.27	0.00
Unit Peak Discharge (cfs/acre/in)	0.190	0.202	0.216	0.221	0.221	0.221	0.000
Peak Discharge (cfs)	26	37	55	75	84	91	

EFH-2

(cont.)

ESTIMATING RUNOFF AND PEAK DISCHARGE

Version 1.1.0

Curve number Computation

Client: Frank Green

County: YOLO Practice: 378 Pond

Calculated By: HT

Checked By:

State: CA

Date: 8/11/2004

Date: _____

COVER DESCRIPTION		Acres (CN)					
		Hydrologic Soil Group					
		A	В	С	D		
OTHER AGRICULTURAL LANDS Pasture, grassland or range poor Brush - brush, weed, grass mix poor		- -	84(79) 8(67)	-	-		
Total Area (by Hydrologic Soil Group)			92				
TOTAL DRAINAGE AREA: 92 Acr	WEIGHTED CURVE NUMBER: 78						

Attachment M

PIPELINE SIZING WORKBOOK Version 1.2

		<u> </u>	1C - Conservation	Service
Project: Frank Greer	County: Yolo	Designed by:		Checked by:
Pipeline location: 6" Pipeline		Date:		Date:
Press Change at End= -10.04 Feet	Ave Press Change=	-10.04 F	eet Travel Time=	10.7 Minutes
	Elev			Tot Pr
Sec Length Outlet Flo	w Diff Nom	Pipe ID	Fr Loss	Change
Num (Feet) (GPM) (GP	W) (Feet) Pipe Type Size	(Inches)	C (Feet)	(Feet) Vel (FPS)
1 2000.0 300.000 300.0	00 0.00 SDR41 6	6.270	150 -10.04	-10.04 3.1

50	AC-FT	325,800 gai	300 gal/MIN 60 MEN 124 hR = 37. 8 days
		•	6" PVC

Diversion + Watershed

= 36.21 days

= 36.21 days

For Total Porno

2 36.5

AE-ft | 325,850 gal | 1 hr | 1 day

| 1 ac-ft | 300 galling 60 min. 24 hr

= 27.53 days

Attachment No

REQUEST FOR CULTURAL RESOURCES REVIEW

Complete for All NRCS Projects Per Bulletin IN 420-2-1

Part 1. To be completed by the Field Office.

Land User:	FRANK GREER	<u> </u>			YOLO		
Project:	PONDS			Field Office:	Woodland		
Practice Code		Acrea	Acreage/Lin. Feet				
	2 PONDS						18 (4)
			e de la companya de l	er i kraj diskulu			<u> </u>
La companya di seriali se							5-955
Provide the leg	gal description of	the entire Area o		Attack to the second of the se		- 15 s	4
USGS Quad:	BROOKS		_	SW 1/4 Sec		<u>10 </u>	3
USGS Quad:		<u> </u>	Legal Desc: S	3E 1/4 Sec	<u>14</u> T	<u>10 R</u>	3
USGS Quad:			Legal Desc: _	1/4 Sec	T	<u> </u>	
USGS Quad:			Legal Desc: 🔄	1/4 Sec	T	<u> </u>	
Has APE been How much b Are any known Are any buildir If there are known Project Start E Requested by: Phone: ATTACH A C	quadrangles and all set ifield checked for are ground was vin cultural resourceings 50 years or oknown resources, locate: 9/1/2004 Phil Hogan (530) 662-2037 > OPY OF THE 7.5 Meted by Cultural Resources	cultural resourd isible at the time is in the APE or der in the APE? cate on quad manned MOTE: A minute USGS QUARTE USGS QUARTE USGS QUARTE INTERIOR INTERIO	es? of the field che immediate vicin ap and briefly de	ck?% ity? scribe (continue) system required to completed required to completed required to completed required to completed required to complete required r	Yes Yes Yes Yes Yes Yes Yes Yes	consultation ober 1, 20 Date <u>no</u>)04 sé
-				Project Nur	nber:		
SHPO File Se	arch Results: _	There are	no recorded Cu recorded Cultur high potential f	ral Resources	in APE.	∖PE.	
							
Recomn	iken: The completenend Monitoring. nend Survey*. A lend SHPO Cons	There are culturnigh probability of	al resources adj exists to impact	acent to the A cultural resour	PE. ces.	case file	
							
				<u> </u>	Date: _		
Cultural Resou	rces Specialist				_		

UNIVERSITY OF CALIFORNIA, DAVIS

SERKELEY * DAVIS * IRVINE * LOS ANGELES * MERCED * RIVERSIDE * SAN DIEGO * SAN FRANCISCO



SANTA BARBARA # SANTA CRUZ

Counseling and Psychological Services 219 North Hall One Shields Avenue Davis CA 95616 Phone: 530-752-0871
rom: Frank Green PLO.
hone: (530) 752-0871
ate: Oct 4, 2004
ages: 2 (including coversheet)
1

Message: Whealer,

I am faxing ax arrended Attachment of as per your request. This shows proposed Channel to catch hill run off for The pend. Channel to catch hill return spill way to Also I added the return spill way to Taylor creek (over flow). As I understand y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we will be able to draw by to y agrored we have from Toylor Creek? Any y and for the flow to the transfer to the total total

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee, or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return this original message to us at the above address via the US Postal Service. Thank you.

16/04/2004 08:58